

Notice of Allowability

Application No.

10/078,674

Examiner

Venkatesh Haliyur

Applicant(s)

HWANG ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9/25/2006.
2. ☒ The allowed claim(s) is/are 1-3,5-26, now renumbered as 1-25, respectively.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Frederick D. Bailey (Reg No: 42,282) on 10/11/06 for claims 1,4-6 and on 10/18/2006 for claims 25-26.

2. The application has been amended as follows:

In claims:

- Claim 1 has been rewritten as follows,

1. A method of controlling transmission timing, comprising:

receiving time alignment bit (TAB) information in a plurality of frames during a predetermined period;

assigning a weighting value to each of multiple units of the TAB information received, said weighting value being assigned in accordance with the order in which the corresponding unit of TAB information is received;

combining the weighted units of TAB information using the weighting values;
determining a timing renewal value based on the combination; and
controlling the transmission timing according to the timing renewal value.

- Claim 4 has been cancelled.
- In claim 5, line 1, "claim 4" has been changed to --claim 1--
- In claim 6, line 1, "claim 4" has been changed to --claim 1—

- Claim 25 has been rewritten as follows,

25. A method of controlling transmission timing, comprising:
combining time alignment bit (TAB) information received in a plurality of frames during a predetermined period;
determining a timing renewal value based on the combination; and
controlling the transmission timing according to the timing renewal value, wherein the combination of the TAB information is performed using at least one of a selected values among the received TAB information on the basis of a predetermined threshold value, and a received TAB information to which a weight is assigned.

- Claim 26 has been rewritten as follows,

26. The method of claim 25, wherein at least one of the selected values of multiple units of the TAB information is on the basis of a hard decision method based on a majority vote of hard decision TAB information or a soft decision method based on an average value of the received TAB information, and is performed prior to combining the selected units of TAB information.

3. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to teach and render obvious the limitations as amended in claims 1 & 25 by the applicant to achieve efficient transmission method by controlling transmission timing by receiving time alignment bit (TAB) information in a plurality of frames during a predetermined period and assigning a weighting value to each of multiple units of the TAB information received in accordance with the corresponding order of receipt and then combining the weighted units of TAB information using the weighting values to determine a timing renewal value based on the combination to control the transmission timing according to the timing renewal value, wherein the combination of the TAB information is performed using at least one of a selected values among

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the received TAB information on the basis of a predetermined threshold value, or a received TAB information to which a weight is assigned.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Venkatesh Haliyur whose telephone number is 571-272-8616. The examiner can normally be reached on Monday thru Friday 8:30AM to 4:30PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on 571-272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Venkatesh Haliyur

Patent Examiner

UH
09/19/06


RICKY Q. NGO
SUPERVISORY PATENT EXAMINER